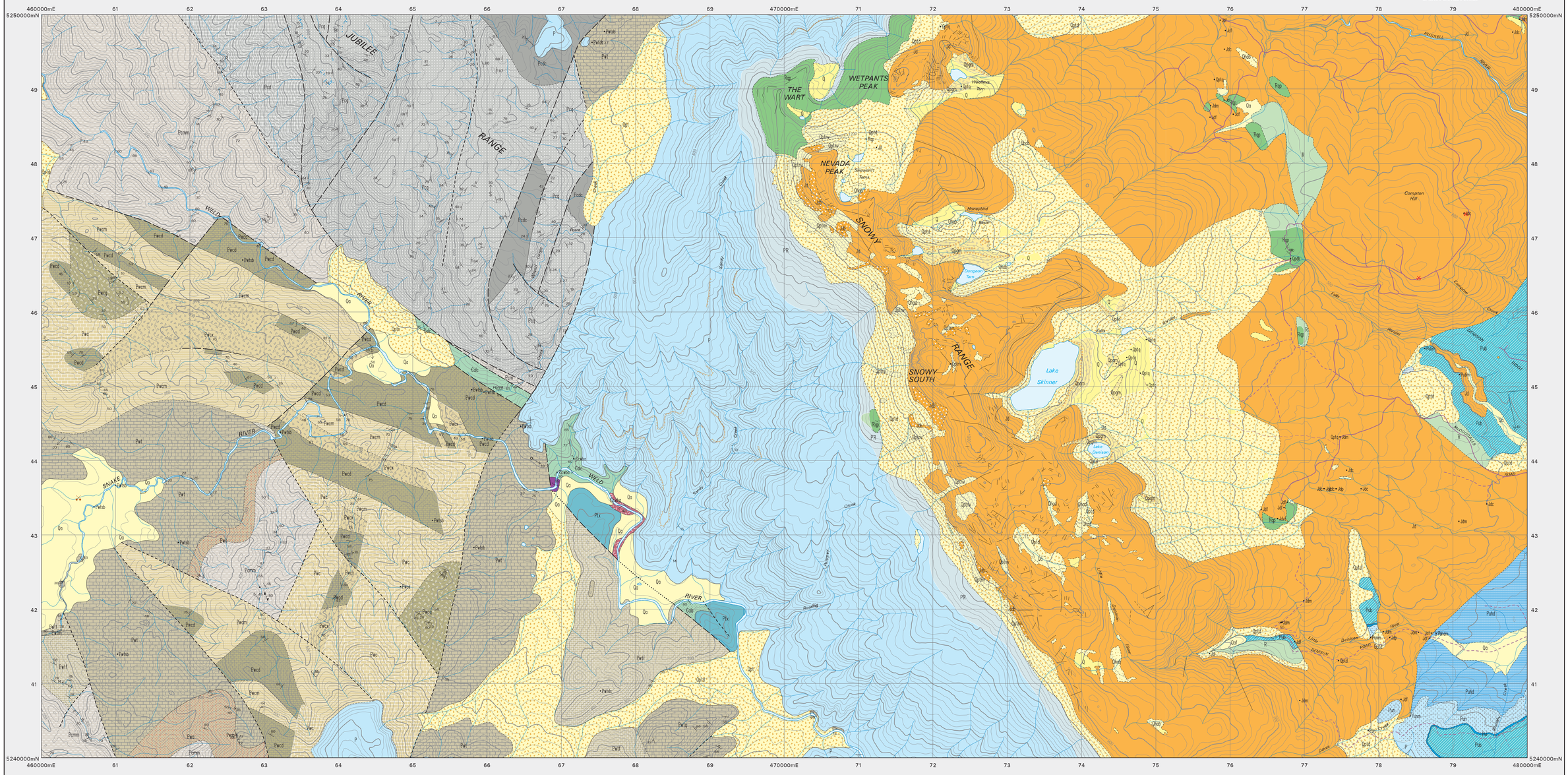
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
NEVADA, SHEET 4624

NEVADA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

- **Qhab** — Marsh and swamp deposits (Qhab), highland marsh deposits with common protruding dolerite outcrops and boulders (Qhad).
- **Qa** — Alluvial gravel, sand and clay (Qa). Some alluvial fans indicated (Qaf).
- **Qptnv** — Periglacial non-vegetated scree deposits (Qptnv).
- **Qpt** — Talus (Qpt); talus consisting dominantly of Jurassic dolerite boulders (Qpta); dominantly of Upper Parmeener Supergroup quartz sandstone (Qptq); of Proterozoic orthoquartzite (Qptn).
- **Qpgm** — Mostly morainal deposits (Qpgm).
- • Qpdb — Deeply weathered dolerite boulder deposit at 476800mE 5246700mN (Qpdb).

Erosional surface.

MESOZOIC

TRIASSIC

- **Rqp** — Dominantly freshwater, cross-bedded quartzose sandstone and subordinate micaceous siltstone and mudstone (correlate in part of Ross Formation) (Rqp); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Rqpm).

PALAEOZOIC

PERMIAN

- **Pub** — Generally unfossiliferous medium to thick-bedded marine siltstone and sandstone with lonestones, some intensely bioturbated beds and rare conglomeratic siltstone layers; laminated dark grey micaceous siltstone with foraminifera at top (correlate of Abels Bay Formation) (Pub); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Pubm).
- **Pul** — Well-sorted, fine-to coarse-grained marine feldspathic sandstone with quartz granules and pebbles (correlate of Risdon Sandstone) (Pul).
- **Pun** — Medium to thick-bedded, generally poorly fossiliferous pebbly marine siltstone and sandstone sequence, with cliff-forming olive-brown weathered coarse-grained sandstone with cobble horizons at the base, and fossiliferous sandstone at the top (correlate of Minnie Point Formation) (Pun); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Punm).
- **Puhd** — Thin to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with lonestones, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Puhdm).

LATE CARBONIFEROUS

- **Ptx** — Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminite; upper unit at Maydena Range of interbedded, pebble to boulder grade conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).

Angular unconformity

UPPER — PARMEENER SUPERGROUP — LOWER

Lymingtonian Stage — ? — ? — REKLINIAN SERIES

PALAEOZOIC

CAMBRIAN

- **Ꞓals** — Quartz-rich lithic sandstone and minor conglomerate of metamorphic, volcanic and dolomitic provenance, and mudstone (Ꞓals).
- **Ꞓalc** — Polymict, dominantly mafic and ultramafic-derived conglomerate, lithic sandstone and shale (Ꞓalc).

Inferred unconformity

PROTEROZOIC

NEOPROTEROZOIC — WELD RIVER GROUP

- **Pwcg** — Predominantly pebbly laminated dolomitic siltstone and mudstone and pale grey dolomitic diamictite (Pwcg).
- **Pwcm** — Predominantly black mudstone and quartz sandstone (Pwcm).
- **Pwcx** — Predominantly black dolomitic diamictite (Pwcx).
- **Pwcd** — Predominantly massive, fine-grained dolostone (Pwcd).
  (Pwcu: correlate of Cotcase Creek Formation).
- **Pwtg** — Dolostone and rare mudstone (Pwt). Dominantly fine-grained dolostone (Pwtf); dominantly oolitic grainstone (Pwtg); red mudstone (Pwtm).
- **Pwa** — Conglomerate, sandstone and minor mudstone (Pwa). Pebbly laminated siltstone and mudstone at 462600mE, 5240300mN (Pwap).
  (correlate of Annakananda Formation).

Low-angle unconformity

CLARK GROUP

- **Pcmm** — Dominantly mudstone and quartz siltstone (Pcmm).
- **Pcd** — Dominantly dolomitic mudstone and siltstone, with minor dolostone and limestone (Pcd).
- **Pcdc** — Dolomitic mudstone, siltstone and intraclastic conglomerate (Pcdc).
- **Pcq** — Orthoquartzite (correlate of Needles Quartzite) (Pcq).

INTRUSIVE ROCKS

MESOZOIC — JURASSIC

- **Jd** — Dolerite (Jd); dolerite with granophyre and pegmatite (Jdp) indicated. Dolerite of grainsize 0.2–0.7mm (Jdvf); 0.7–1.5 mm (Jdf); 1.5–3 mm (Jdm); >3 mm (Jdc) indicated.
- **Jdb** — Dolerite fragmented by periglacial processes (Jdb).

PALAEOZOIC — CAMBRIAN ?

- **Ꞓdi** — Diorite (Ꞓdi).
- **Ꞓcwba** — Amphibolite (Ꞓcwba).

ALTERED ROCKS

NEO-PROTEROZOIC TO POST CARBONIFEROUS

- **Pwtsb** — Bouldery lag of silicification products (Pwtsb).
- **Pwtds** — Dolostone of Weld River Group partly or wholly replaced by coarsely crystalline quartz of massive to boxwork fabric. Silicification in part of post-Carboniferous age (Pwtds).

Geological boundary – position approximate
Geological boundary – inferred
Geological boundary – concealed
Scarp
Moraine ridge crests
Photo Lineament
Fault – position approximate
Fault – inferred
Fault – concealed
Notable small outcrop or float / lag occurrence

Strike and dip of bedding – right way up; overturned; facing unknown.
Horizontal bedding.
Strike and dip of cleavage of unspecified type and relative age; vertical.
Strike and dip of cleavage of relative local age S1.
Strike and dip of cleavage of relative local age S2.
Trend and plunge of minor fold hingeline; with dip and dip direction of axial surface indicated.
Trend and plunge of minor fold hingeline, vergence sinistral; with dip and dip direction of axial surface indicated.
Strike and dip of dominant joint set.
Trend and plunge of lineation of unspecified type.
Field station for adjacent readings on the map.
Mineral deposit location – hardrock } Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Mineral deposit location – alluvial } Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by C.R. Calver, B.Sc.(Hons), Ph.D. and S.M. Forsyth, B.Sc. 1997 from the following sources (see responsibility diagram):

A. 1:25000 scale mapping, 1989–1990.

B. 1:100000 scale mapping, 1995–1997.

C. Largely airphoto interpretation.

D. C.R. Calver and J.L. Everard; personal observation.

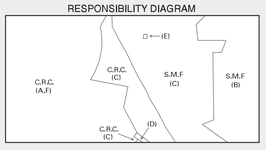
E. E.B. Corbett; personal observation.

F. Updated by M. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program.

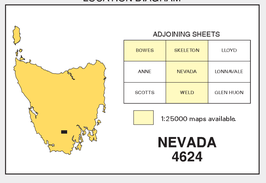
Base data from the LIST, Copyright State of Tasmania.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



ADJOINING SHEETS

BOWES	SKELETON	LLOYD
ANNE	NEVADA	LONNAVALE
SCOTTS	WELD	GLEN HUON

1:25000 maps available.

NEVADA
4624

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Data correct & plotfile generated: 10-MAR-2006

WARNING: INKS ARE LIGHT SENSITIVE